

Title (en)  
PORTABLE TOILET BOWL VENTILATOR

Title (de)  
TRAGBARER VENTILATOR FÜR WC-SCHÜSSEL

Title (fr)  
DISPOSITIF PORTATIF DE VENTILATION POUR CUVETTE DE WC

Publication  
**EP 0832329 A4 19990217 (EN)**

Application  
**EP 96924283 A 19960611**

Priority  
• US 9610585 W 19960611  
• US 49095695 A 19950615

Abstract (en)  
[origin: US5570477A] A portable fan apparatus is provided for ventilating toilet bowls by forced ventilation wherein air from the toilet bowl is exhausted by the fan via a tube that extends through the water trap formed by water in the trap formed partly by the bottom of the toilet bowl and partly by the drain portion of the toilet, thereby exhausting the foul air into the drain line of the building's plumbing system. The apparatus can be carried by a traveler from toilet to toilet, thereby to provide the desired ventilation for any toilet facility the traveler may visit.

IPC 1-7  
**E03D 9/052**

IPC 8 full level  
**E03D 9/05** (2006.01); **E03D 9/052** (2006.01)

CPC (source: EP US)  
**E03D 9/052** (2013.01 - EP US)

Citation (search report)  
• [X] WO 8700879 A1 19870212 - GUY DESIGN AB [FI]  
• [XY] US 4094023 A 19780613 - SMITH DONALD L  
• [X] GB 2135353 A 19840830 - PAROUSSIADIS DIMITRI  
• [Y] GB 2268520 A 19940112 - SMITH CHRISTOPHER JOHN [GB]  
• [Y] US 4472841 A 19840925 - FAULKNER DAVID L [US]  
• See references of WO 9700359A1

Designated contracting state (EPC)  
AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)  
**US 5570477 A 19961105**; AU 6477996 A 19970115; CA 2223523 A1 19970103; EP 0832329 A1 19980401; EP 0832329 A4 19990217; JP H11515065 A 19991221; MX 9710145 A 19980329; WO 9700359 A1 19970103

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**US 49095695 A 19950615**; AU 6477996 A 19960611; CA 2223523 A 19960611; EP 96924283 A 19960611; JP 50341297 A 19960611; MX 9710145 A 19960611; US 9610585 W 19960611